

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/007700

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01M2/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 991 133 A (RAY O VAC CORP) 5 April 2000 (2000-04-05) paragraphs '0031!', '0033!', '0061!', '0066!', '0068!', '0069!', '0071!', '0072!', '0075!' - '0077!', '0084!; claims 1,4	1,4,5, 7-10 2
X	WO 03/063267 A (BUCKLE KEITH EDWARD ; GILLETTE CO (US); ANDREWS MARK (US); TAKAHURA) 31 July 2003 (2003-07-31) page 5, line 9 - line 31 page 9, line 4 - line 11 example 1 claims 1-4, 14-17	1,4,9,10

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 732 758 A (MATSUSHITA ELECTRIC IND CO LTD) 18 September 1996 (1996-09-18) page 3, line 24 - line 26 example 1	2
A	EP 0 560 579 A (EVEREADY BATTERY INC) 15 September 1993 (1993-09-15) page 3, line 30 - line 33 page 4, line 9 - line 43 page 5, line 39 - line 41	1-16
A	PATENT ABSTRACTS OF JAPAN vol. 004, no. 170 (E-035), 22 November 1980 (1980-11-22) & JP 55 119345 A (CITIZEN WATCH CO LTD), 13 September 1980 (1980-09-13) abstract	1,3
A	EP 0 629 009 A (KATAYAMA TOKUSHU KOGYO KK) 14 December 1994 (1994-12-14) page 8, line 9 - line 16 page 10, line 45 - line 53 page 11, line 39 - line 40 page 12, line 2 - line 6 claims 1,4,24 figure 17	11,12,16
A	EP 0 940 866 A (RAY O VAC CORP) 8 September 1999 (1999-09-08) paragraphs '0240!, '0245! - '0247!, '0249!	5,7,11

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007700

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0991133	A	05-04-2000	EP 0991133 A1	05-04-2000
			JP 2000082447 A	21-03-2000
			US 6245452 B1	12-06-2001
WO 03063267	A	31-07-2003	US 2003134191 A1	17-07-2003
			BR 0306974 A	09-11-2004
			EP 1468460 A2	20-10-2004
			JP 2005516346 T	02-06-2005
			WO 03063267 A2	31-07-2003
EP 0732758	A	18-09-1996	JP 8250081 A	27-09-1996
			JP 3247570 B2	15-01-2002
			JP 8255598 A	01-10-1996
			EP 0732758 A1	18-09-1996
			US 5787752 A	04-08-1998
EP 0560579	A	15-09-1993	US 5279905 A	18-01-1994
			CA 2091239 A1	10-09-1993
			DE 69311934 D1	14-08-1997
			DE 69311934 T2	11-12-1997
			DK 560579 T3	23-02-1998
			EP 0560579 A1	15-09-1993
			ES 2104053 T3	01-10-1997
			HK 1000492 A1	27-03-1998
			JP 3060145 B2	10-07-2000
			JP 6013112 A	21-01-1994
			SG 46271 A1	20-02-1998
			US 5306580 A	26-04-1994
JP 55119345	A	13-09-1980	NONE	
EP 0629009	A	14-12-1994	JP 6346150 A	20-12-1994
			JP 6346282 A	20-12-1994
			JP 2785902 B2	13-08-1998
			JP 6346284 A	20-12-1994
			JP 2786578 B2	13-08-1998
			JP 6344003 A	20-12-1994
			DE 69404765 D1	11-09-1997
			DE 69404765 T2	12-03-1998
			EP 0629009 A1	14-12-1994
			ES 2106376 T3	01-11-1997
			US 5576113 A	19-11-1996
			US 5840441 A	24-11-1998
			US 5603782 A	18-02-1997
EP 0940866	A	08-09-1999	EP 0940869 A2	08-09-1999
			EP 0940866 A2	08-09-1999
			EP 0940870 A2	08-09-1999
			EP 0940871 A2	08-09-1999
			EP 0940872 A2	08-09-1999
			EP 0940873 A2	08-09-1999
			EP 0940874 A2	08-09-1999
			EP 0940875 A2	08-09-1999
			US 6261709 B1	17-07-2001
			US 6368738 B1	09-04-2002
			US 6203940 B1	20-03-2001
			US 6296961 B1	02-10-2001
			US 6436571 B1	20-08-2002

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007700

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0940866 A		US 6210826 B1	03-04-2001
		US 6210827 B1	03-04-2001
		US 6197445 B1	06-03-2001
		US 6461761 B1	08-10-2002

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